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JARID2 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI14331

Product Information

Application	WB
Primary Accession	Q92833
Other Accession	NM_017566, NP_004964
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Bovine
Predicted	Human, Mouse, Rabbit, Pig, Guinea Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	138734

Additional Information

Gene ID	3720
Alias Symbol	JMJ
Other Names	Protein Jumonji, Jumonji/ARID domain-containing protein 2, JARID2, JMJ
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-JARID2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	JARID2 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

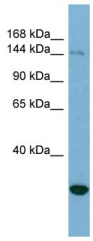
Name	JARID2
Synonyms	JMJ
Function	Regulator of histone methyltransferase complexes that plays an essential role in embryonic development, including heart and liver development, neural tube fusion process and hematopoiesis (PubMed:20075857). Acts as an accessory subunit for the core PRC2 (Polycomb repressive complex 2) complex, which mediates histone H3K27 (H3K27me3) trimethylation on chromatin (PubMed:20075857, PubMed:29499137, PubMed:31959557). Binds DNA and mediates the recruitment of the PRC2 complex to target genes in embryonic stem cells, thereby playing a key role in stem cell differentiation and normal embryonic development (PubMed:20075857). In cardiac cells, it is

	required to repress expression of cyclin-D1 (CCND1) by activating methylation of 'Lys-9' of histone H3 (H3K9me) by the GLP1/EHMT1 and G9a/EHMT2 histone methyltransferases (By similarity). Also acts as a transcriptional repressor of ANF via its interaction with GATA4 and NKX2-5 (By similarity). Participates in the negative regulation of cell proliferation signaling (By similarity). Does not have histone demethylase activity (By similarity).
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00355, ECO:0000255|PROSITE-ProRule:PRU00537, ECO:0000269|PubMed:20075857, ECO:0000269|PubMed:29499137}. Note=Colocalizes with the PRC2 complex on chromatin.
Tissue Location	During embryogenesis, predominantly expressed in neurons and particularly in dorsal root ganglion cells

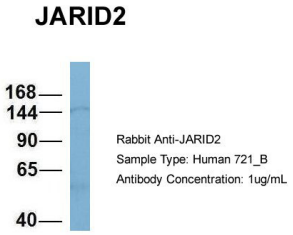
References

Berge-Lefranc J.-L.,et al.Hum. Mol. Genet. 5:1637-1641(1996).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mungall A.J.,et al.Nature 425:805-811(2003).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Choudhary C.,et al.Science 325:834-840(2009).

Images



WB Suggested Anti-JARID2 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:312500
Positive Control: Hela cell lysate
JARID2 is supported by BioGPS gene expression data to be expressed in HeLa



Host:Rabbit
Target Name:JARID2
Sample Tissue:721_B
Antibody Dilution: 1.0µg/ml
JARID2 is strongly supported by BioGPS gene expression data to be expressed in Human 721_B cells